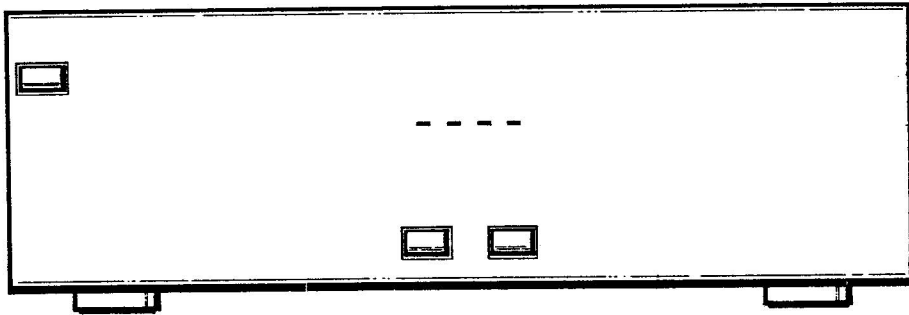


**SERVICE  
MANUAL**

**UMA - 200**  
**STEREO MAIN AMPLIFIER**



# SPECIFICATIONS

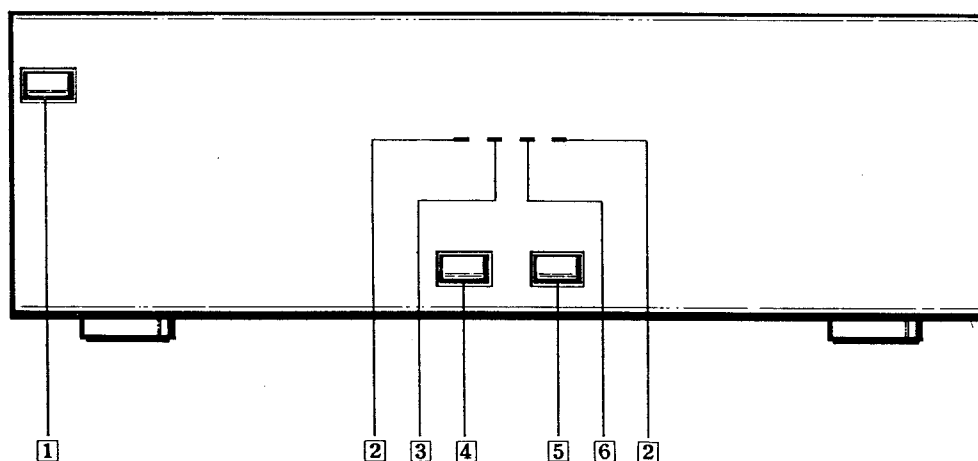
## Amplifier Section

Continuous average power output (both channel driven)	
into 8 Ohms(from 20Hz to 20kHz)	144W
into 8 Ohms(from 1kHz)	150W
Total Harmonic Distortion	
into 8 Ohms(from 20Hz to 20kHz)	0.08%
Signal to Noise Ration(IHF "A" Network)	114 dB
Input(Sensitivity / Impedance)	1V / 56K $\Omega$
Frequency Response	
6Hz to 110kHz	-3dB
Power "ON" Muting Time	5 Sec

## Miscellaneous

Power requirements	AC220V,50Hz
Power consumption	520W
Dimensions(W X H X D)	420 X 130 X 380mm

## FRONT PANEL FEATURES



### 1 POWER SWITCH

Press the switch to supply power to the amplifier.

### 2 OUTPUT LEVEL METER

The output power level meters give a visual indication of audio power being delivered to each speaker.

### 3, 6 PROTECTION CIRCUIT OPERATION INDICATOR LAMP

The red LED indicates when the protection circuit is activated and the green LED indicates when the protection circuit is off.

The protection circuit activate for 5-7 SEC when the Power is "ON" or a heat beyond a specific temperature.

### 4 SPEAKER "A" SELECTOR SWITCH

Press button to listen to the sound connected to the speaker terminal A.

[ ON ] -Pressed position ; The sound is heard from speaker system A.

[ OFF ] -Released position ; The sound is not heard from speaker system B.

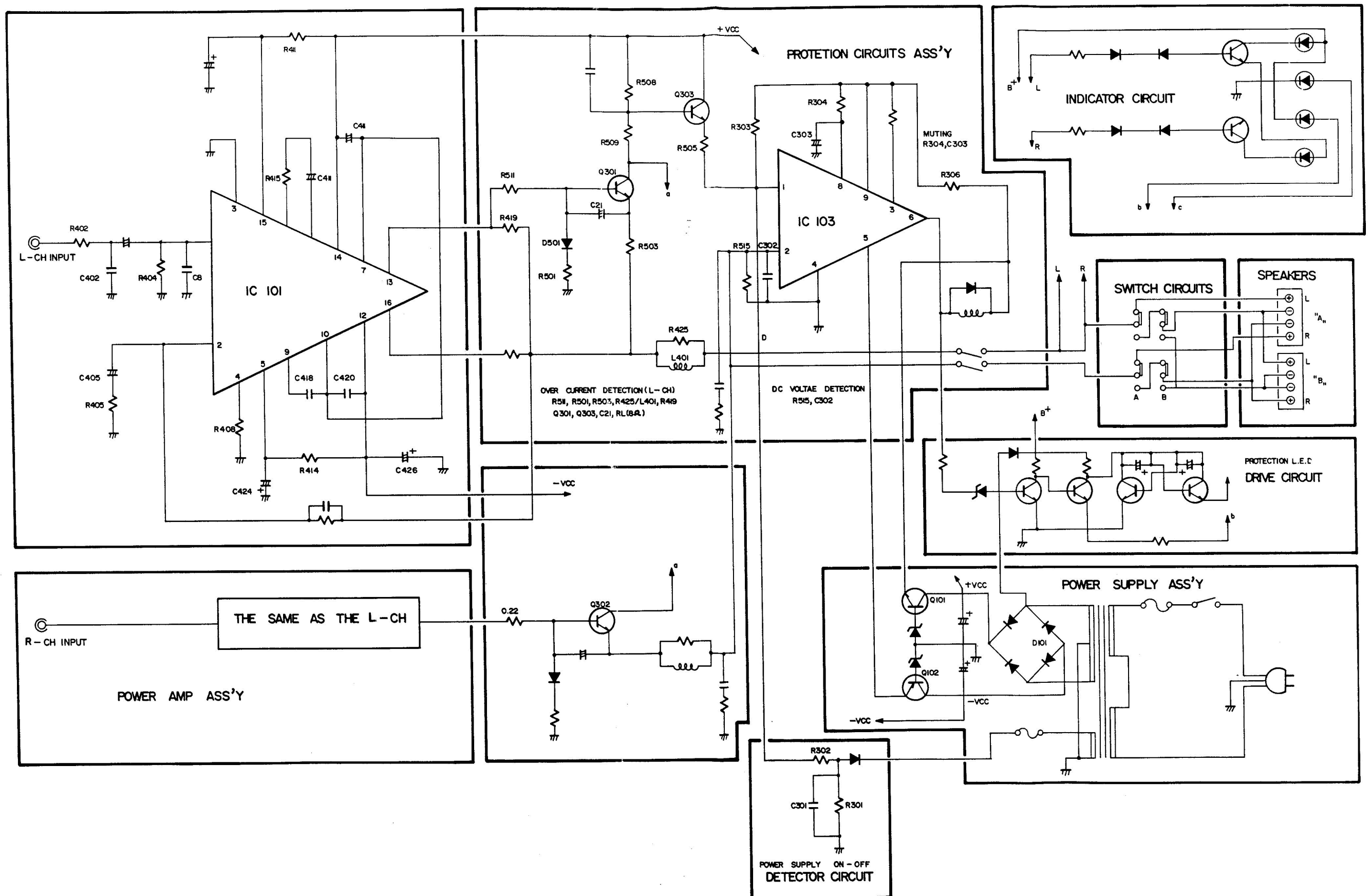
### 5 SPEAKER "B" SELECTOR SWITCH

Press button to listen to the sound connected to the speaker terminal B.

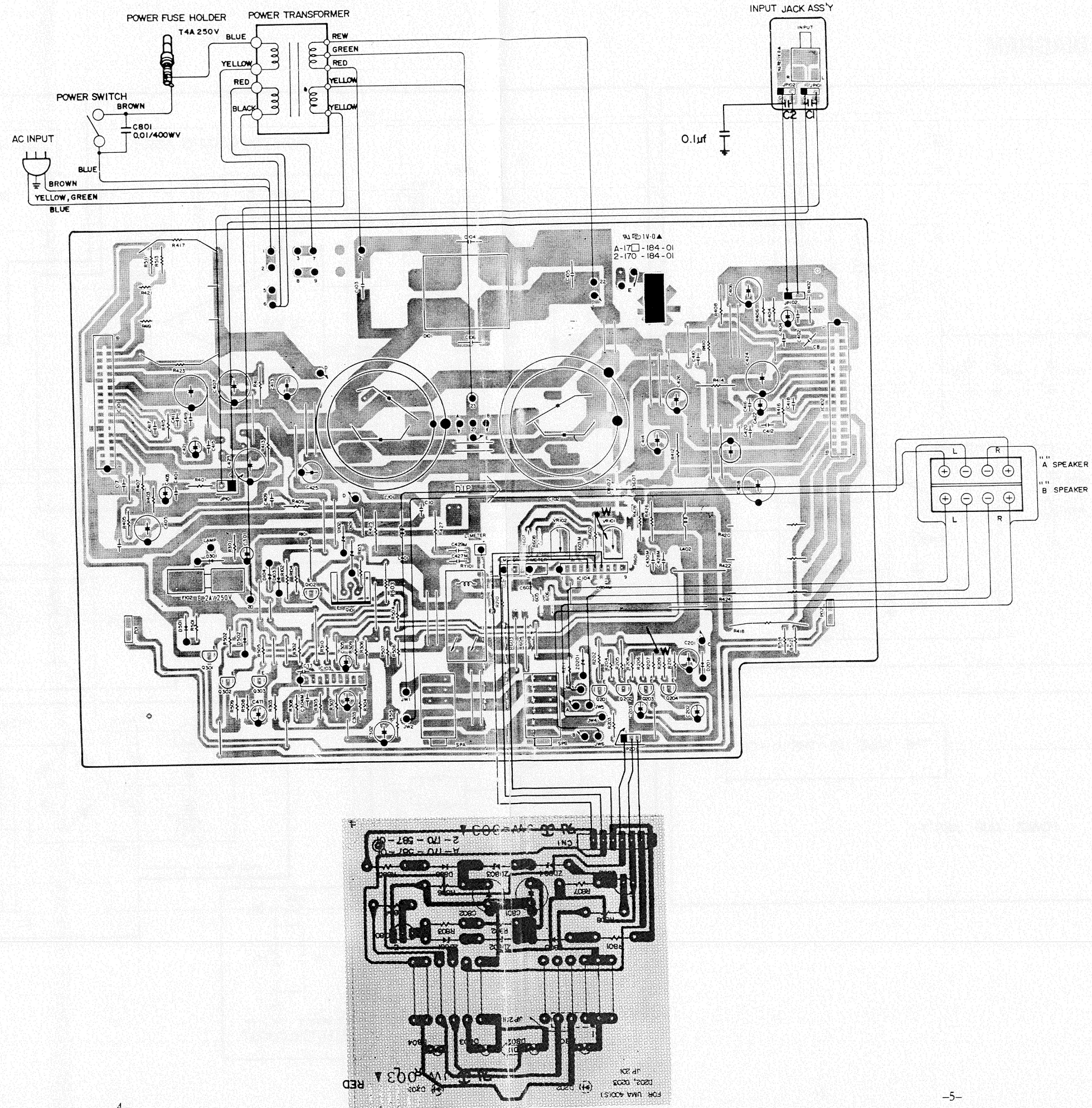
[ ON ] -Pressed position ; The sound is heard from speaker system B.

[ OFF ] -Released position ; The sound is not heard from speaker systems A.

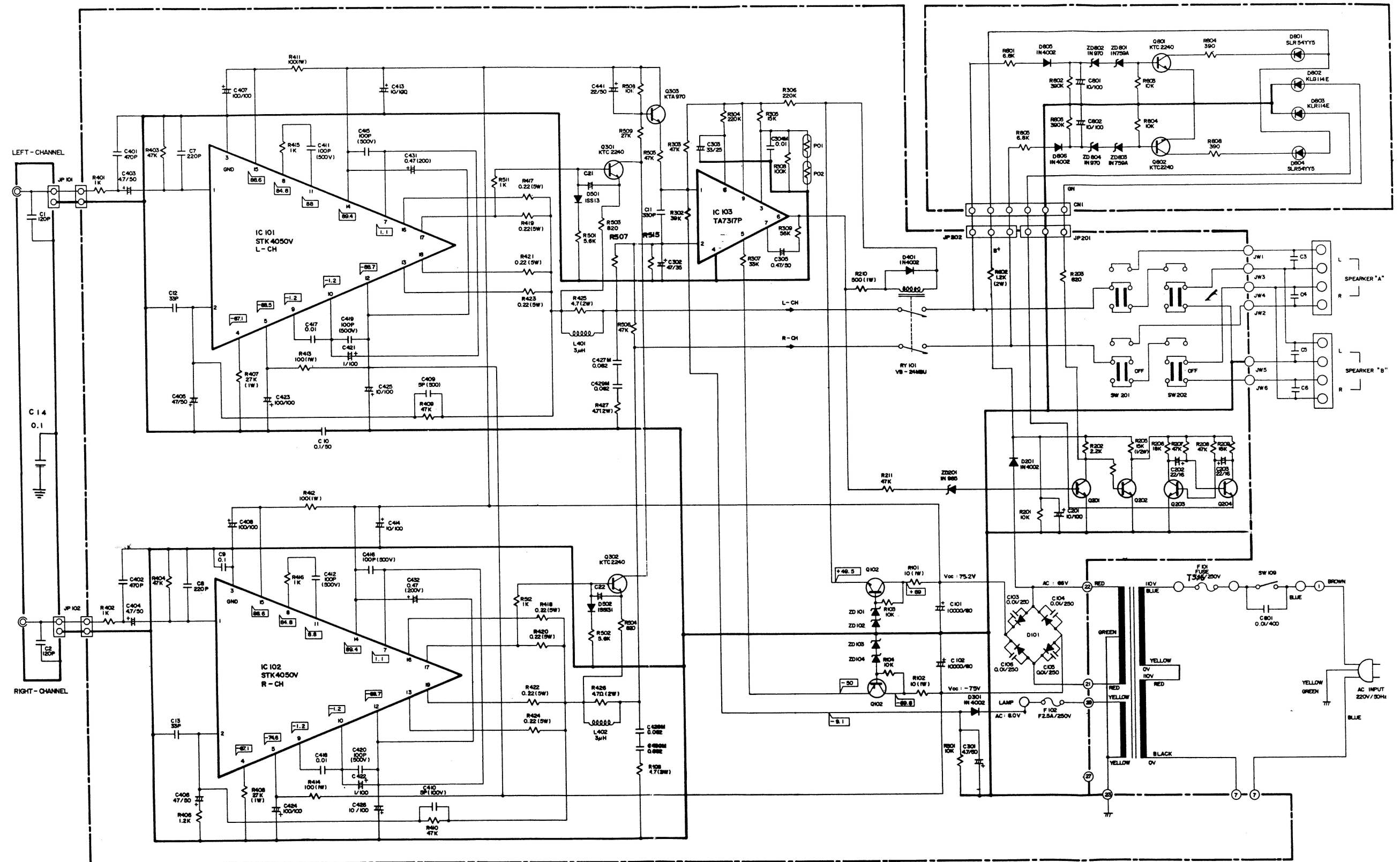
# BLOCK DIAGRAM



# WIRING DIAGRAM



## SCHEMATIC DIAGRAM





**NOTES**

THE FOLLOWING UNITS AND FIGURES ARE USED WITHOUT WRITING IN THIS SCHEMATICS

VOLTAGE : V	RESISTANCE : $\Omega$	$10^3$ : K
CURRENT : A	CAPACITANCE : F	$10^6$ : M
POWER : W	INDUCTANCE : H	$10^9$ : $\mu$
		$10^{12}$ : P

ALSO, 1/4 IN POWER,  $10^6$  IN CHARGE, 50V IN CAPACITOR ARE OMITTED  
R, L, C, ... AND THEIR NUMBERS ARE THE PART POSITION IN P.C.B

 : SIGNAL ROUTE

 : DC VOLTAGE AT UNLOADED

Q101 : KTC 2238  
Q102 : KTA 9-49  
Q201-204, 301,302 : KTC 2240  
Q303 : KTA 970  
D101 : KBPC 25A  
ZD101-104 : IN 9708  
C3, C4, C5, C6 : 0.05/500  
C21, C22 : 1/50 (NP)